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	APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/809,562	03/14/2001		Hillel Hendler	23600.01901	5863
	58076	7590	05/17/2006		EXAMINER	
	REED SMIT	•	O CENTER	NG, CHRISTINE Y		
	SUITE 2000	CADLIC	o CLIVILIC		ART UNIT	PAPER NUMBER
	SAN FRANCISCO, CA 94111				2616	······································
					DATE MAILED: 05/17/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/809,562	HENDLER, HILLEL					
Office Action Summary	Examiner	Art Unit					
	Christine Ng	2616					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 							
Status							
1) Responsive to communication(s) filed on 04 Ag	oril 2006.						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.						
3) Since this application is in condition for allowan		osecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>2-5,7-15,17-20,28 and 30-33</u> is/are pe	ending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>18 and 19</u> is/are allowed.							
6)⊠ Claim(s) <u>2-5,7-15,17,20,28, and 30-33</u> is/are re							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
	•						
Application Papers							
9) The specification is objected to by the Examiner.							
10) $oxtimes$ The drawing(s) filed on <u>14 March 2001</u> is/are: a) $oxtimes$ accepted or b) $oxtimes$ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal	Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Claim Objections

- 1. Claims 28 and 32 are objected to because of the following informalities:
 - a) Claim 28 depends cancelled claim 27.
 - b) In claim 32 line 10, "n * Fs," is missing after --than-- and before --where--.

 Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 2-5, 7-15, 17, 20 and 30-33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In claim 31 lines 23-24, it is unclear how "the switch frequency comprises a sampling rate of twice a rejection bandwidth of the BPFs". Similarly, in claim 32 lines 10-12, it is unclear how the sampling rate can be "at least twice the rejection bandwidth". As best understood from the disclosure, "rejection bandwidth" refers to the frequency ranges in which the bandpass filter rejects signals. The bandpass filter allows signals between two specific frequencies, a lower frequency and a higher frequency, to pass. If the rejection bandwidth is the region outside the two frequencies,

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it is unclear how the sampling rate can be twice the rejection bandwidth, since there are two different bandwidth ranges (the one below the lower frequency and the one above the higher frequency).

- The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2-5, 7-15, 32 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 32 lines 9-10, it is unclear how the "step of multiplexing comprises multiplexing the multiple signals at a sampling rate...". Multiplexing signals is a different process than sampling signals. It is unclear how the signals can be *multiplexed* at a sampling rate.

Allowable Subject Matter

6. Claims 18 and 19 are allowed.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Ng whose telephone number is (571) 272-3124. The examiner can normally be reached on M-F; 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

€\(\text{C. Ng}\)
May 15, 2006

HUY D. VU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600